

Table 30. U.S. Emissions of Hydrofluorocarbons, Perfluorocarbons, and Sulfur Hexafluoride, 1990-2002
 (Million Metric Tons Carbon Dioxide Equivalent)

Gas	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	P2002
Hydrofluorocarbons													
HFC-23	36.1	31.7	35.9	32.9	32.7	28.1	32.4	31.3	41.9	31.9	31.2	20.9	21.0
HFC-125.....	*	*	0.8	1.6	1.0	1.6	2.3	3.0	3.8	4.4	5.3	6.4	7.8
HFC-134a.....	0.7	0.7	0.8	3.8	5.8	15.9	21.1	26.2	30.0	33.9	37.6	41.0	44.2
HFC-143a.....	*	*	*	0.1	0.2	0.5	0.9	1.4	2.1	2.9	3.9	4.9	6.1
HFC-236fa	*	*	*	*	*	*	*	*	0.1	1.1	2.0	2.8	3.5
Total HFCs.....	36.8	32.5	37.6	38.3	39.7	46.1	56.6	62.1	78.9	75.2	80.8	76.7	83.1
Perfluorocarbons													
CF ₄	14.5	12.6	11.7	11.4	10.2	10.3	11.0	10.0	8.7	8.6	7.9	4.3	4.0
C ₂ F ₆	4.9	4.4	4.2	4.4	4.4	4.9	5.3	5.6	5.9	5.9	4.9	3.5	3.6
C ₄ F ₁₀	*	*	*	*	*	*	*	*	*	*	*	*	*
Total PFCs.....	19.4	17.0	15.9	15.9	14.7	15.2	16.3	15.6	14.6	14.6	12.8	7.8	7.6
Other HFCs, PFCs/PFPEs	0.2	0.1	0.0	0.1	1.3	4.4	7.7	8.6	9.7	10.4	11.0	11.6	13.2
Sulfur Hexafluoride.....	40.4	38.4	34.4	39.4	35.2	28.8	32.7	29.5	23.0	22.0	18.7	17.5	16.7
Total Emissions	96.8	88.0	87.9	93.6	90.9	94.6	113.3	116.0	126.2	122.1	123.2	113.6	120.6

*Less than 0.05 million metric tons carbon dioxide equivalent.

P = preliminary data.

Notes: Other HFCs, PFCs/PFPEs include HFC-152a, HFC-227ea, HFC-245fa, HFC-4310mee, and a variety of PFCs and perfluoropolyethers (PFPEs). They are grouped together to protect confidential data. Totals may not equal sum of components due to independent rounding.

Source: U.S. Environmental Protection Agency, Office of Air and Radiation, web site www.epa.gov/globalwarming/ (preliminary estimates, August 2003).